

\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 15:06:48 ON 31 JUL 2002

=> file ca  
COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY SESSION  
FULL ESTIMATED COST  
0.21 0.21

FILE 'CA' ENTERED AT 15:07:04 ON 31 JUL 2002

=> s bacillus(10a)10438  
69019 BACILLUS  
10586 BACILLI  
144 BACILLIS  
77131 BACILLUS  
(BACILLUS OR BACILLI OR  
BACILLIS)

9 10438  
L1 0 BACILLUS(10A)10438

=> s bacillus(10a)40484  
69019 BACILLUS  
10586 BACILLI  
144 BACILLIS  
77131 BACILLUS  
(BACILLUS OR BACILLI OR  
BACILLIS)

1 40484  
L2 0 BACILLUS(10A)40484

=> s bacillus(l)40484  
69019 BACILLUS  
10586 BACILLI  
144 BACILLIS  
77131 BACILLUS  
(BACILLUS OR BACILLI OR  
BACILLIS)

1 40484  
L3 0 BACILLUS(L)40484

=> index bioscience  
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED  
COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY SESSION  
FULL ESTIMATED COST  
10.44 10.65

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS,  
AGRICOLA, ANABSTR, AQUASCI,  
BIOBUSINESS, BIOCOMMERCE, BIOSIS,  
BIOTECHABS, BIOTECHDS, BIOTECHNO, CARA,  
CANCERLIT, CANTER, CHAPA YTB, GEN, GEN  
CONFSUI, CROPB, CROPU, EDPB,

search error messages that display as 0\* with  
SET DETAIL OFF.

=> s bacillus(10a)40484  
2 FILE BIOTECHABS  
2 FILE BIOTECHDS  
1 FILE DGENE  
36 FILES SEARCHED...  
1 FILE IFIPAT  
7 FILE USFATFULL  
1 FILE WPIDS  
1 FILE WPINDEX

7 FILES HAVE ONE OR MORE ANSWERS, 63  
FILES SEARCHED IN SIMINDEX

L4 QUE BACILLUS(10A) 40484

=> s bacillus(10a)10438  
48 FILES SEARCHED...  
1 FILE USFATFULL

1 FILES HAVE ONE OR MORE ANSWERS, 63  
FILES SEARCHED IN SIMINDEX

L5 QUE BACILLUS(10A) 10438

=> s bacillus(l)10438  
1 FILE BIOSIS  
7 FILE GENBANK  
1 FILE JICST EPLUS  
1 FILE MEDLINE  
49 FILES SEARCHED...  
1 FILE TOXCENTER  
6 FILE USFATFULL

6 FILES HAVE ONE OR MORE ANSWERS, 63  
FILES SEARCHED IN SIMINDEX

L6 QUE BACILLUS(L) 10438

=> d rank  
F1 7 GENBANK  
F2 6 USFATFULL  
F3 1 BIOSIS  
F4 1 JICST EPLUS  
F5 1 MEDLINE  
F6 1 TOXCENTER

=> file f3 6  
COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY SESSION  
FULL ESTIMATED COST  
2.12 12.77

FILE 'BIOSIS' ENTERED AT 15:10:55 ON 31 JUL  
2002  
COPYRIGHT © 2002 BIOLOGICAL ABSTRACTS  
INC. P

FILE 'ADISALERTS' ENTERED AT 15:11:00 ON 31

FILE 'TOXCENTER' ENTERED AT 15:10:55 ON 31 JUL 2002  
COPYRIGHT (C) 2002 ACS

=> s 16  
L7

4 L6

=> dup rem 17

PROCESSING COMPLETED FOR L7

L6 1 DUP REM L7 (3 DUPLICATES  
REMOVED)

ANSWER '1' FROM FILE BIOSIS

=> d bib abs

L6 ANSWER 1 OF 1 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC. DUPLICATE 1  
AN 1999:443776 BIOSIS  
DN PREV199900443776  
TI Role of tyrosine 265 of alanine racemase  
from *Bacillus stearothermophilus*.  
AU Watanabe, Akira; Kurokawa, Yoichi;  
Yoshimura, Tohru; Esaki, Nobuyoshi (1)  
CS (1) Institute for Chemical Research,  
Kyoto University, Gokasho, Uji,  
Kyoto, 611-0011 Japan.  
SO Journal of Biochemistry (Tokyo), (June,  
1999) Vol. 125, No. 6, pp.  
987-990.  
ISSN: 0021-924X.  
DT Article  
LA English  
SI English  
AB Tyrosine 265 (Y265) of \*\*\**Bacillus*\*\*\*  
*stearothermophilus* is believed  
to serve as a catalytic base specific to  
the L-enantiomer of a substrate  
amino acid by removing (or returning) an  
alpha-hydrogen from (or to) the  
isomer on the basis of the X-ray  
structure of the enzyme (Stamper, C.G.,  
Morollo, A.A., and Ringe, D. (1998)  
*Biochemistry* 37, \*\*\*10438\*\*\*  
-10443). We found that the Y265fwdarwA  
mutant (Y265A) enzyme is  
virtually inactive as a catalyst for  
alanine racemization. We examined the  
role of Y265 further with beta-  
chloroalanine as a substrate with the  
expectation that the Y265A mutant only  
catalyzes the alpha,beta  
elimination of the D enantiomer of beta-  
chloroalanine. However,  
L-beta-chloroalanine also served as a  
substrate; this enantiomer was  
rather better as a substrate than the  
antipode. Moreover, the mutant  
enzyme was as equally active as the wild  
type enzyme in the elimination  
reaction. These findings indicate that  
Y265 is essential for alanine  
racemization but not for beta-  
chloroalanine elimination.

FULL ESTIMATED COST  
4.27 17.24

INDEX ADISALERTS, ADISINSIGHT, ADISNEWS,  
AGRICOLA, ANABASE, AQUASCI,  
BIOBUSINESS, BIOCOMMERCE, BIOSIS,  
BIOTECHABS, BIOTECHDB, BIOTECHNO, CABA,  
CANCERLIT, CAPLUS, CEABA VTB, CEN, CIN,  
CONFSCI, CROPR, CROPT, EDBF,  
DDFJ, EGENE, ERUGB, DRUGLAUNCH,  
DRUGMONOG2, ...  
ENTERED AT 15:11:42 ON 31 JUL 2002

63 FILES IN THE FILE LIST IN STINDEX

Enter SET DETAIL ON to see search term  
postings or to view  
search error messages that display as 0\* with  
SET DETAIL OFF.

=> s (ncib or ncimb) (10a) 10438  
49 FILES SEARCHED...  
1 FILE USPATFULL

1 FILES HAVE ONE OR MORE ANSWERS, 63  
FILES SEARCHED IN STINDEX

L6 QUE (NCIB OR NCIMB) (10A) 10438

=> s (ncib or ncimb) (1) 10438 not 19  
36 FILES SEARCHED...

0 FILES HAVE ONE OR MORE ANSWERS, 63  
FILES SEARCHED IN STINDEX

L10 QUE (NCIB OR NCIMB) (L) 10438 NOT L9

=> file stnguide  
COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY SESSION  
FULL ESTIMATED COST  
2 12 19.16

FILE 'STNGUIDE' ENTERED AT 15:14:17 ON 31 JUL 2002  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER  
AGREEMENT  
COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY,  
JAPAN SCIENCE  
AND TECHNOLOGY CORPORATION, AND  
EACH INFORMATION SCIENTIST'S EMPLOYER

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: JUL 31, 2002 15:14:17

=> index bioscience  
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED  
COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY SESSION  
FULL ESTIMATED COST

CANTERLIT, CAPLUS, CEABA VTB, CEN, CIN,  
CONFSCI, CROPB, CROPU, DDFB,  
DDFM, DGENE, DRUGB, DRUGLAUNCH,  
DRUGMONOG2, ...'  
ENTERED AT 15:17:03 ON 31 JUL 2002

63 FILES IN THE FILE LIST IN STINDEX

Enter SET DETAIL ON to see search term  
postings or to view  
search error messages that display as 0\* with  
SET DETAIL OFF.

=> s cbs 102449  
49 FILES SEARCHED...

0 FILES HAVE ONE OR MORE ANSWERS, 63  
FILES SEARCHED IN STINDEX

L11 QUE CBS 102449

=> s cbs 102448  
53 FILES SEARCHED

0 FILES HAVE ONE OR MORE ANSWERS, 63  
FILES SEARCHED IN STINDEX

L12 QUE CBS 102448

=> s atcc 48272  
3 FILE AGRICOLA  
2 FILE BIOBUSINESS  
7 FILE BIOSIS  
13 FILE BIOTECHABS  
13 FILE BIOTECHDS  
6 FILE BIOTECHNO  
12 FILE CAPLUS

<-----User Break----->

u  
=> s atcc 48272 and protease  
33 FILES SEARCHED...  
1 FILE USPATFULL  
1 FILE WPIDS  
1 FILE WPINDEX

3 FILES HAVE ONE OR MORE ANSWERS, 63  
FILES SEARCHED IN STINDEX

L13 QUE ATCC 48272 AND PROTEASE

file hits  
COST IN US DOLLARS  
ENTER FILE TOTAL

ENTRY SESSION  
FILE ESTIMATED COST  
11.13 30.59

FILE 'USPATFULL' ENTERED AT 15:29:36 ON 31 JUL  
2002

CA INDEXING COPYRIGHT © 2002 AMERICAN  
CHEMICAL SOCIETY ACS

FILE 'USPATFULL' ENTERED AT 15:29:36 ON 31 JUL 2002

=> dup rem l14  
PROCESSING COMPLETED FOR L14  
L15 2 DUP REM L14 (0 DUPLICATES  
REMOVED)

ANSWER '1' FROM FILE USPATFULL  
ANSWER '2' FROM FILE WPIDS

=> d bib abs 1-2

L15 ANSWER 1 OF 2 USPATFULL  
AN 1999:33788 USPATFULL  
TI Method for influencing .beta. lactam  
antibiotic production and for  
isolation of large quantities of ACV  
synthetase  
IN Veenstra, Annemarie, Nieuw Vennepe,  
Netherlands  
Martin, Juan Francisco, Leon, Spain  
Garcia, Bruno Diez, San Sebastian,  
Spain  
Sutierrez, Santiago, Leon, Spain  
Barredo, Jose Luis, Burgos, Spain  
Montenegro Prieto, Eduardo, Leon, Spain  
Von Doehren, Hans, Berlin, Germany,  
Federal Republic of  
Palissa, Harriet, Berlin, Germany,  
Federal Republic of  
Van Liempt, Henk, Berlin, Germany,  
Federal Republic of  
PA Gist-Brocaes, N.V., Delft, Netherlands  
(non-U.S. corporation)  
PI US 5882879 19990316  
AI US 1994-222617 19940404 (8)  
RLI Continuation-in-part of Ser. No. US  
1991-658398, filed on 19 Feb 1991,  
now abandoned  
PFAI EP 1990-200475 19900228  
EP 1990-200488 19900228  
EP 1990-201768 19900702  
EP 1990-202628 19901003  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Martinell, James  
LFEP McDonnell Boehnen Hulbert & Berghoff  
CLMN Number of Claims: 30  
ETL Exemplary Claim: 1  
DFWN 32 Drawing Figure(s); 32 Drawing  
Page(s)  
LN CNT 5174  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB Novel methods and compositions are  
provided for the enhanced production  
of .beta. lactam antibiotics. The  
process is exemplified by the  
production of penicillin. In addition,  
the P. chrysogenum and A.  
chrysogenum .delta. (L .alpha.  
aminoadipyl) L cysteinyl D valine  
synthetase genes have been isolated and  
sequenced. Also methods are  
provided for the production of .delta.  
L .alpha. aminoadipyl L  
cysteinyl D valine synthetase.

USPATFULL  
AN 1999:33788 USPATFULL

DNC C1001-009529  
 TI Microbial production of cephalosporin C  
 or its derivatives, useful as  
 intermediates for antibiotics, in cells  
 transformed with a gene encoding  
 CPC (cephalosporin C) acetylhydrolase.  
 DC B 2 D16  
 IN BARRERO FUENTE, J L; CAMPOS GARCIA, S;  
 CASQUEIRO BLANCO, F J; DIEZ GARCIA,  
 B. FIERRO FIERRO, F; GUTIERREZ MARTIN, S;  
 MARTIN MARTIN, J F; VELASCO  
 ALVAREZ, J  
 PA (ANTI) ANTIBIOTICOS SAU  
 CYC 93  
 PI WO 2000061767 A1 20001019 200104)\* ES  
 63p

FW AT BE CH CY DE DK EA ES FI FR GB  
 GH GM GR IE IT KE LS LU MC MW NL  
 OA PT SD SE SL SZ TE UG ZW  
 W AE AG AL AM AT AU AZ BA BB BG BR  
 BY CA CH CN CR CU CZ DE DK DM DO  
 EE ES FI GB GD GE GH GM HR HU ID  
 IL IN IS JP KE KG KP KR KZ LC LE  
 LF LS LT LU LV MA MD MG MK MN MW  
 MX NO NZ PL PT RO RU SD SE SG SI  
 SK SL TJ TM TR TT TZ UA UG US UZ  
 VN YU ZA ZW

AI 2000035595 A 20001114 200108)  
 ES 2156812 A1 20010716 200147)  
 EP 1170369 A1 20001019 200205) EN  
 R. AL AT BE CH CY DE DK ES FI FR GB  
 GR IE IT LI LU LV MC MK NL PT  
 RO SE SI  
 ES 2156812 B1 20000201 200225)  
 ADT WO 2000061767 A1 WO 2000-ES126 20000407;  
 AU 2000035595 A AU 2000-35595  
 20000407; ES 2156812 A1 ES 1999-731  
 19990409; EP 1170369 A1 EP 2000 914189  
 20000407; WO 2000-ES126 20000407; ES  
 2156812 B1 ES 1999-731 19990409  
 FDI AU 2000035595 A Based on WO 200061767; EP  
 1170369 A1 Based on WO 200061767  
 PRAI ES 1999-731 19990409  
 AN 2001-031587 [04] WPIDS  
 AB WO 200061767 A UPAB: 20010118  
 NOVELTY Production of cephalosporin C  
 (CPC) (I), or its deacetylated  
 derivatives and/or their synthesis  
 intermediates, comprising growing a  
 microbial host transformed with a DNA  
 sequence that includes the cahB gene  
 encoding A. chrysogenum (II) under  
 conditions where it is either expressed  
 or inactivated, is new.

DETAILED DESCRIPTION INDEPENDENT  
 CLAIMS are also included for the  
 following:  
 a) a DNA sequence (N1) of 1631 bp  
 given in the specification,  
 representing the cahB gene of Acremonium  
 chrysogenum;

b) nucleotide sequences (III) that  
 hybridize with N1;  
 c) a method for producing N1;  
 d) a method for producing N1;

of the endogenous gene).

USE (II) is used for removal of  
 acetyl groups, especially from the  
 3' carbon of CPC or from 7  
 aminocephalosporanic acid, to give  
 deacetylated

products useful as intermediates for  
 cephalosporin antibiotics.

ADVANTAGE Inactivation of the gene  
 that expresses (II) increases  
 production of cephalosporins by A.  
 chrysogenum.

Dwg. 0/12

= s atcc 20338 and protease  
 L16 ( ATCC 20338 AND PROTEASE

= index bioscience  
 FILE 'DRUGMONO3' ACCESS NOT AUTHORIZED  
 COST IN U.S. DOLLARS  
 SINCE FILE TOTAL

ENTRY SESSION  
 FULL ESTIMATED COST  
 9 17 39.76

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS,  
 AGRICOLA, ANABSTE, AQUASCI,  
 BIOBUSINESS, BIOCOMMERCE, BIOSIS,  
 BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,  
 CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN,  
 CONFSCI, CROPH, CROPU, DDFB,  
 DDFU, DGENE, DRUGB, DRUGLAUNCH,  
 DRUGMONO2, ...'  
 ENTERED AT 15 30:39 ON 31 JUL 2002

63 FILES IN THE FILE LIST IN STINDEX

Enter SET DETAIL ON to see search term  
 postings or to view  
 search error messages that display as 0\* with  
 SET DETAIL OFF.

= s atcc 20338 and protease  
 34 FILES SEARCHED...  
 0\* FILE WFINDEX

0 FILES HAVE ONE OR MORE ANSWERS, 63  
 FILES SEARCHED IN STINDEX

L16 QUE ATCC 20338 AND PROTEASE

= s atcc 20338 and protease  
 1 FILE GENBANK  
 4 FILES SEARCHED...  
 2 FILE USPATFULL  
 0\* FILE WFINDEX

2 FILES HAVE ONE OR MORE ANSWERS, 63  
 FILES SEARCHED IN STINDEX

L16 QUE 20338 AND PROTEASE

FULL ESTIMATED COST  
31.80 71.56

STN INTERNATIONAL LOGOFF AT 16:06:20 ON 31 JUL  
2002